

CLAIMS:

I claim:

1. A mobile shredding system, comprising:
 - (a) an input hopper with a hopper inlet and a hopper outlet, the hopper disposed to receive feedstock to be shredded;
 - (b) a first conveyer with a first conveyor inlet and a first conveyor outlet, the first conveyor inlet disposed to receive feedstock from the hopper outlet;
 - (c) a shredder feed aperture disposed to receive feedstock from the first conveyor outlet;
 - (d) a second conveyor with a second conveyor inlet disposed to receive excess feedstock from the first conveyor outlet, the second conveyor having a conveyor surface moving away from the shredder feed aperture, wherein the second conveyor moves excess feedstock away from the shredder feed aperture; and
 - (e) a shredder disposed to receive feedstock from the feed aperture, the shredder having a shredder inlet and a shredder outlet.

1 2. A mobile shredding system as recited in claim 1, and which further comprises:

2 3 a shredded material compactor disposed to receive shredded material from
4 3 the shredder outlet, the shredded material compactor having a compactor
5 4 outlet;

6 5 a reciprocating ram, with a stroke of the reciprocating ram defining a
7 6 discharge area, the discharge area disposed to receive shredded stock from
8 7 the shredded material compactor, the discharge area having an outlet.

9 3. A mobile shredding system as recited in claim 2, and wherein the compactor
10 is one or more augers.

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12 4. A mobile shredding system as recited in claim 1, and which further comprises
13 a shredder feed drum rotatably mounted between the shredder feed aperture and
14 the shredder, wherein rotation of the shredder feed drum pulls feedstock from the
15 feed aperture and pushes it toward the shredder.

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17 5. A mobile shredding system as recited in claim 1, and wherein the first
18 conveyor is in a substantially horizontal orientation.

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20 6. A mobile shredding system as recited in claim 1, and wherein the second
21 conveyor is in a substantially vertical orientation.

1 7. A mobile shredding system, comprising:

2 (a) an input hopper with a hopper inlet and a hopper outlet, the hopper
3 disposed to receive feedstock to be shredded;

4 (b) a shredder having a shredder inlet and a shredder outlet, the
5 shredder inlet being disposed to directly or indirectly receive
6 feedstock from the hopper;

7 (c) a compactor disposed to receive shredded material from the shredder
8 outlet, the compactor having a compactor outlet;

9 (d) a reciprocating ram, with a stroke of the reciprocating ram defining
10 a discharge area, the discharge area disposed to receive shredded
11 stock from the compactor, the discharge area having an outlet.

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13 8. A mobile shredding system as recited in claim 7, and wherein the compactor
14 is one or more augers.

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16 9. A mobile shredding system as recited in claim 7, and which further comprises
17 a shredder feed drum rotatably mounted between the shredder feed aperture and
18 the shredder, wherein rotation of the shredder feed drum pulls feedstock from the
19 feed aperture and pushes it toward the shredder.

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21 10. A mobile shredding system as recited in claim 7, and wherein the first
22 conveyor is in a substantially horizontal orientation.

1 11. A mobile shredding system as recited in claim 7, and wherein the second
2 conveyor is in a substantially vertical orientation

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4 12. A material handling and feed system for balers, comprising:

5 (a) an input hopper with a hopper inlet and a hopper outlet, the hopper
6 disposed to receive balestock to be baled;

7 (b) a first conveyor with a first conveyor inlet and a first conveyor
8 outlet, the first conveyor inlet disposed to receive balestock from the
9 hopper outlet;

10 (c) a compactor feed aperture disposed to receive balestock from the
11 first conveyor outlet;

12 (d) a second conveyor with a second conveyor inlet disposed to receive
13 excess balestock from the first conveyor outlet, the second conveyor
14 having a conveyor surface moving away from the compactor feed
15 aperture, wherein the second conveyor moves excess balestock away
16 from the compactor feed aperture;

17 (e) a balestock compactor disposed to receive balestock from the
18 compactor feed aperture, the compactor having a compactor outlet;
19 and

20 (f) a reciprocating ram, with a stroke of the reciprocating ram defining
21 a discharge area, the discharge area disposed to receive balestock
22 from the balestock compactor, the discharge area having an outlet
23 disposed to provide the balestock to a baler.

1 13. A material handling and feed system for balers as recited in claim 12, and
2 wherein the compactor is one or more augers.

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4 14. A material handling and feed system for balers as recited in claim 12, and
5 which further comprises a feed drum rotatably mounted between the compactor
6 feed aperture and the compactor, wherein rotation of the feed drum pulls feedstock
7 from the feed aperture and pushes it toward the compactor.

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9 15. A material handling and feed system for balers as recited in claim 12, and
10 wherein the first conveyor is in a substantially horizontal orientation.

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12 16. A material handling and feed system for balers as recited in claim, and
13 wherein the second conveyor is in a substantially vertical orientation.